

*Updated 5  
09/36/641*

| L<br>Numb r | Hits   | S arch Text                                                                                                                                                                                                        | DB                                          | Tim stamp        |
|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|
| 1           | 1357   | (hardware adj stat \$) or (hard adj disk\$ adj configuration\$4)                                                                                                                                                   | USPAT; US-P PUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 09:59 |
| 2           | 593    | (partition or column) adj information                                                                                                                                                                              | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:03 |
| 3           | 0      | (hard adj disk adj configuration\$4) adj information                                                                                                                                                               | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:02 |
| 4           | 0      | hard adj disk adj configuration\$4 adj information                                                                                                                                                                 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:03 |
| 5           | 868    | (location or partition) adj3 (operating adj system)                                                                                                                                                                | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:07 |
| 6           | 988972 | (recover\$4 or restor\$4 or backup or back-up or (back adj up))                                                                                                                                                    | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:19 |
| 7           | 1942   | ((hardware adj state\$) or (hard adj disk\$ adj configuration\$4)) or ((partition or column) adj information)                                                                                                      | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:19 |
| 8           | 57     | ((recover\$4 or restor\$4 or backup or back-up or (back adj up))) with (((hardware adj state\$) or (hard adj disk\$ adj configuration\$4)) or ((partition or column) adj information))                             | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:20 |
| 9           | 2345   | define\$4 adj format                                                                                                                                                                                               | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:21 |
| 10          | 0      | ((recover\$4 or restor\$4 or backup or back-up or (back adj up))) with (((hardware adj stat \$) or (hard adj disk\$ adj configuration\$4)) or ((partition or column) adj information)) with (define\$4 adj format) | USPAT; US-P PUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/23 10:22 |

|    |         |                                                                                                                                                                                                                                                                                                                  |                                                         |                     |
|----|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| 11 | 2318    | aut matic\$4 adj c nfigur\$4                                                                                                                                                                                                                                                                                     | USPAT;<br>US-P PUB;<br>EP ; JP ;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:24 |
| 12 | 0       | ((r cov r\$4 r rest r\$4 or backup r back-up or (back adj up))) with (((hardware adj state\$) or (hard adj disk\$ adj configur\$4)) or ((partition or volumn) adj information))) with (automatic\$4 adj configur\$4)                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:24 |
| 13 | 1365388 | (storage adj device) or memory                                                                                                                                                                                                                                                                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:26 |
| 14 | 16      | ((recover\$4 or restor\$4 or backup or back-up or (back adj up))) with (((hardware adj state\$) or (hard adj disk\$ adj configur\$4)) or ((partition or volumn) adj information))) with ((storage adj device) or memory)                                                                                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:43 |
| 15 | 3149    | (registry or restor\$4 or unchang\$5) adj (information or file\$ or program\$)                                                                                                                                                                                                                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:46 |
| 16 | 0       | (((recover\$4 or restor\$4 or backup or back-up or (back adj up))) with (((hardware adj state\$) or (hard adj disk\$ adj configur\$4)) or ((partition or volumn) adj information))) with ((storage adj device) or memory)) with ((registry or restor\$4 or unchang\$5) adj (information or file\$ or program\$)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/23<br>10:46 |
| -  | 3192    | (714/?).ccls.                                                                                                                                                                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22<br>15:52 |
| -  | 2152    | (703/?).ccls.                                                                                                                                                                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22<br>15:53 |
| -  | 2132    | (711/?).ccls.                                                                                                                                                                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/04/22<br>15:53 |

|   |        |                                                                                                                                                                       |                                                                   |                     |
|---|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|
| - | 2753   | (710/?).ccls.                                                                                                                                                         | USPAT;<br>US-P PUB;<br>EP ; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>15:53 |
| - | 637    | (712/?).ccls.                                                                                                                                                         | US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT;           | 2003/04/22<br>15:53 |
| - | 10640  | ((714/?).ccls.) or ((703/?).ccls.) or<br>((711/?).ccls.) or ((710/?).ccls.) or<br>((712/?).ccls.)                                                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>15:54 |
| - | 673336 | recover\$4                                                                                                                                                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>15:54 |
| - | 19866  | state\$ adj information\$                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>15:56 |
| - | 1      | hard adj disk\$ adj state\$ adj data                                                                                                                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>15:59 |
| - | 75101  | hard adj disk\$                                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>16:00 |
| - | 40     | (state\$ adj information\$) with (hard adj disk\$)                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>16:01 |
| - | 1      | ((state\$ adj information\$) with (hard adj disk\$)) with recover\$4                                                                                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>16:09 |
| - | 2      | ((state\$ adj information\$) same (hard adj disk\$) same recover\$4) and (((714/?).ccls.) or ((703/?).ccls.) or ((711/?).ccls.) or ((710/?).ccls.) r ((712/?).ccls.)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT; | 2003/04/22<br>16:09 |

|  |             |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
|--|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  | <b>11</b>   | <b>(stat \$ adj inf rmati n\$) sam (hard adj disk\$) same r c v r\$4</b>                                                                        | <b>U PAT;<br/>US-P PUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</b> | <b>2003/04/22<br/>16:14</b> |
|  | <b>2318</b> | <b>automatic\$4 adj c nfigur\$4</b>                                                                                                             | <b>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</b>                                                                                                                                                                                                                                                                                                                                                                                                 | <b>2003/04/22<br/>16:15</b> |
|  | <b>1</b>    | <b>((state\$ adj information\$) same (hard adj disk\$) same recover\$4) and (automatic\$4 adj configur\$4)</b>                                  | <b>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</b>                                                                                                                                                                                                 | <b>2003/04/22<br/>16:15</b> |
|  | <b>1169</b> | <b>restor\$4 adj information</b>                                                                                                                | <b>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB<br/>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</b>                                                                                                                                                                                                                                                                 | <b>2003/04/22<br/>16:16</b> |
|  | <b>0</b>    | <b>((state\$ adj information\$) same (hard adj disk\$) same recover\$4) and (automatic\$4 adj configur\$4)) and (restor\$4 adj information)</b> | <b>USPAT;<br/>US-PGPUB;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</b>                                                                                                                                                                                                                                                                                                                                                                                                 | <b>2003/04/23<br/>09:56</b> |

US-PAT-NO : 5748971

DOCUMENT-IDENTIFIER: US 5748971 A

TITLE: Option card hibernation system

----- KWIC -----

when said hibernation flag has been set, restoring the system memory and graphics card memory from data stored in said auxiliary memory, transmitting a software interrupt generated by said basic input/output system to the option card, performing an interrupt routine stored in the option card for restoring a register state and initializing chipset data in accordance with data previously stored in response to a received software interrupt, and restoring register data of the central processing unit and a hardware state for the computer system.

when the hibernation flag bas been set, restoring a system memory and a graphics card memory of said computer system from data stored in an auxiliary memory, transmitting a software interrupt generated by a basic input/output system to an option card operationally coupled to said computer system via an extension slot of a bus of said computer system, performing an interrupt routine stored in the option card for restoring a register state and initializing chipset data in accordance with data previously stored in response to the received software interrupt, and restoring register data of the central processing unit and a hardware state of the computer system.

US-PAT-NO: 5696897  
DOCUMENT-IDENTIFIER: US 5696897 A  
TITLE: Method and apparatus for a multi-layer system  
quiescent suspend and resume operation

----- KWIC -----

Thus, the kernel restarts all of the device drivers at Step 2. To restart each device driver, the kernel issues an attach() command with special resume parameters to each device driver. Each device driver responds to the attach() command with resume parameters by restoring the associated hardware device to the exact state of the hardware device before the system was suspended. The device driver restores the hardware device's state using the hardware state information stored in memory right before the system was suspended. After all the device drivers have been restored, the computer system can now perform I/O operations.

PAT-NO: JP402163825A

DOCUMENT-IDENTIFIER: JP 02163825 A

TITLE: INFORMATION PROCESSOR

PUBN-DATE: June 25, 1990

INVENTOR-INFORMATION:

NAME  
SHIMIZU, MAKOTO

ASSIGNEE-INFORMATION:

|                      |                |
|----------------------|----------------|
| NAME<br>TOSHIBA CORP | COUNTRY<br>N/A |
|----------------------|----------------|

APPL-NO: JP63318243

APPL-DATE: December 16, 1988

INT-CL (IPC): G06F009/06, G06F001/26, G06F009/445, G06F013/00

ABSTRACT:

PURPOSE: To easily set up a system by automatically switching off and on a power supply via a control means in the case the control information is changed by a changing means.

CONSTITUTION: A nonvolatile memory 7 serving as a battery back-up memory stores the active partition information showing an operating system which is under use for example. In the case the active partition information stored in the memory 7 is changed, a power supply is automatically switched off and then on again via a sequencer 8. Thus it is possible to set up a system with no intervention of an operator.

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PUB-NO: EP000709763A2

DOCUMENT-IDENTIFIER: EP 709763 A2

TITLE: Network hibernation system

PUBN-DATE: May 1, 1996

INVENTOR-INFORMATION:

| NAME            | COUNTRY |
|-----------------|---------|
| PARK, NOH-BYUNG | KR      |
| LEE, SANG-JIN   | KR      |
| CHO, SHUNG-HYUN | KR      |
| CHOI, JONG-SUNG | KR      |

ASSIGNEE-INFORMATION:

| NAME                       | COUNTRY |
|----------------------------|---------|
| SAMSUNG ELECTRONICS CO LTD | KR      |

APPL-NO: EP95307555

APPL-DATE: October 24, 1995

PRIORITY-DATA: KR09427299A (October 25, 1994)

INT-CL (IPC): G06F001/26

EUR-CL (EPC): H04L012/10 ; H04L029/06, G06F001/32

ABSTRACT:

CHG DATE=19990617 STATUS=O> The invention relates to a network hibernation system which comprises a power controller (2) which outputs time-out signal when the event does not occur in the peripheral equipment for sometime; a power supply (3) for backing up of data which outputs a power interruption detection signal when the power supply is cut off with the power supplied urgently by the battery (34) and cuts off the power of battery when the power interruption signal is inputted; a controller (1) which backs up data in network environment and thereafter, outputs the power interruption signal when the power interruption detection signal or the time-out signal is inputted and recovers the data and environment backed up on the memory so that the computer may operate in the same state as the former state; a network interface (4)

for the network connection; a supplementary memory (5) in which the data for backing up the hardware state or the working environment are stored in the computer; and a memory (6) in which the hibernation information is stored, and recovers the working environment to the former state when the power is cut off abruptly in the network environment and thereafter, the power is turned on again and also, interrupts the power automatically when the computer is not used for sometime and thereafter, recovers the working environment to the former state when the power is applied again so that the consumed power may be saved.

<IMAGE>